

What is claimed is:

1. A slip joint adaptor comprising:
a housing;
a first chamber contained within the housing and configured to allow a pipe to slide through it;
a second chamber contained within the housing and configured to allow an end of a pipe to slide through it; and
a third chamber contained within the housing and configured to attach to an end of a second pipe.
2. The slip joint adaptor of claim 1, wherein the first, second and third chambers are substantially coaxial.
3. The slip joint adaptor of claim 1, wherein the housing has a substantially hexagonal outer cross-section.
4. The slip joint adaptor of claim 1, wherein the third chamber has threads for attaching to an end of a second pipe.
5. The slip joint adaptor of claim 1, further comprising at least one annular groove in the first chamber configured to house an O ring gasket.
6. The slip joint adaptor of claim 5, further comprising:
a pipe extending through the first chamber in a slidable fashion and having an end in the second chamber; and

an O ring gasket in the at least one groove the O ring gasket having an inner diameter less than an outer diameter of the pipe, and the O ring gasket having an outer diameter greater than the diameter of the groove.

7. The slip joint adaptor of claim 1, further comprising a tapered portion located between the first and second chambers.

8. The slip joint adaptor of claim 1, further comprising a pipe extending through the first chamber in a slidable fashion and terminating with a flared end in the second portion, the flared portion having a diameter sufficient to prevent the pipe end from sliding through the first chamber.

9. The slip joint adaptor of claim 1, further comprising:

a pipe extending through the first chamber in a slidable fashion and having an end in the second chamber; and

a shoulder having a diameter greater than a diameter associated with the first chamber, the shoulder mounted on a portion of the pipe located outside the housing and located on the pipe to but against the housing and prevent the end of the pipe from extending into the third chamber.

10. The slip joint adaptor of claim 1, further comprising:

a pipe extending through the first chamber in a slidable fashion and having an end in the second chamber; and

a seal located between the pipe and the housing substantially sealing the second chamber from the outside of the housing via the first housing.

11. A slip joint adaptor comprising:
 - means for housing a pipe configured to allow an end of a first pipe to slide through it;
 - means for limiting sliding motion of the first pipe so that the first pipe does not slide out of the housing means; and
 - means for attaching to an end of a second pipe.
12. The slip joint adaptor of claim 11, wherein the attaching means has a substantially hexagonal outer cross-section.
13. The slip joint adaptor of claim 11, attaching means has threads for attaching to an end of a second pipe.
14. The slip joint adaptor of claim 11, further comprising at least one seal containing means in the means for housing.
15. The slip joint adaptor of claim 11, further comprising a pipe extending through the housing means in a slidable fashion and terminating with a flared end configured to prevent the flared end from sliding out of the housing means.
16. The slip joint adaptor of claim 11, further comprising:
 - a pipe extending through the housing means; and
 - a stop located on the pipe and located on the pipe to prevent the end of the pipe from extending into the housing means farther than a predetermined distance.

17. The slip joint adaptor of claim 11, further comprising:
a pipe extending through the housing means; and
means for sealing the pipe into the housing means.
18. A method of attaching two pipe ends comprising:
sliding a first pipe through a slip joint adapter;
positioning the slip joint adapter to the desired location on the first pipe;
providing a stop on the first pipe that blocks the first pipe from sliding
into the slip joint adapter farther than a predetermined distance; and
attaching the slip joint adapter to an end of a second pipe.
19. The method of claim 18, further comprising sealing the first pipe with the
slip joint adapter.
20. The method of claim 18, further comprising flaring the end of the first
pipe.